

OLEFIN OXIDE CATALYSTS

5 **ABSTRACT**

 The invention provides a process for the oxidation
of olefins having three or more carbon atoms in which the
olefin is reacted with oxygen in the presence of a
catalyst containing silver and a promoter containing
10 potassium and a promoter containing rhenium deposited on
an α -alumina carrier, in which the potassium promoter
provides potassium at a concentration of up to 120 μ mole
per gram of catalyst. The invention further provides a
catalyst composition for the oxidation of olefins having
15 three or more carbon atoms in which the catalyst contains
silver and a promoter containing potassium and a promoter
containing rhenium deposited on an α -alumina carrier, in
which the potassium promoter provides potassium at a
concentration of from 8 μ mole per gram to 120 μ mole per
20 gram of catalyst.